portrait orientation directed at the user, as illustrated in **FIG. 11**. By appropriate focusing this could be used for video calls with the picture of the user being shown and transmitted. In the 360° position, the camera can be used in a more conventional manner with the camera view away from the user, as shown in **FIG. 10**. Display **16** again operates as a view finder to show the field of view of the camera **31**, but in landscape orientation.

[**0060**] Notepad **29** may be enabled in the 180° position. A function button, such as shown at **33** in **FIG. 2**, may be used to indicate to the processor **1**, that the notepad feature is selected. Processor **1** would then enable the note pad module **29** and display **16** would be touch sensitive. This can be a pointer operated sensitivity allowing free hand markings for a true note pad feel. In the 180° position the device can be oriented for operation with the keypad **14** at the right or left hand side, as shown in **FIGS. 13 and 14**. This also allows convenient operation for either right or left handed users. The flat nature of this orientation allows the notepad function to be used on a table or other flat surface. The notepad feature is also enabled in the 360° position, as shown in **FIG. 11**. The display **16** is oriented on the back of the folded unit, shown in **FIG. 3** and in the reverse position may be conveniently hand held for use as a notepad, as shown in **FIG. 15**.

[**0061**] In a further embodiment, the mobile communications terminal **10** of **FIGS. 1-3** is constructed with a clock radio, photo module **25** which provides a clock function in associated with a radio function for alarm or listing purposes. A photo could also be displayed either as a temporary or extended display. This feature is enabled in an intermediate position, for example approximately 300°, as shown in **FIG. 4***b* and **FIG. 12**. In this position panel **22** operates as a base with panel **24** extending upward having its surface **24***a* in a conveniently viewable orientation. As shown in **FIG. 12**, surface **24***a* is constructed with the display **16** in full view. In this position main control processor **1**, enables the clock radio photo module **25** and causes the display of time, radio selection, or photo.

[**0062**] In another embodiment, a multi-function device **100** is constructed as a combination personal digital assistant and a mobile communication terminal, as illustrated in **FIGS. 7-9**. PDA/mobile terminal **100** is constructed with a two panel housing that encloses the components of the device **100** in the general configuration illustrated in **FIG. 9** to provide a wider variety of functions and applications. The device is constructed having a first panel **122** and a second panel **124**. First panel **122** has a front surface **122***a* and a back surface **122***b*. Second panel **124** has a front surface **124***a* and a back surface **124***b*.

[**0063**] As shown in **FIG. 7** the front surfaces **122***a* and **124***a* are shown in the flat 180° position. A primary display screen **116** is mounted on front surface **124***a* of the second panel **124** and is constructed to provide a user interface component adapted to display data relating to the various functions provided, such as, for example, communications, a PDA, note pad and other data displays depending on the operational selection of the user and the relative position of the panels. A primary keyboard **114** is provided on the front surface **122***a* of the first panel **122**, to provide a means of inputting data for use in telephone functions, PDA functions, and other functions as necessary. Appropriate function buttons **104**, such as soft keys **109**, **133** and browser keys **107**,**135** in **FIGS. 7 and 8** are also provided to facilitate selection of features and browsing through menus associated with a particular feature.

[**0064**] In **FIG. 8**, the back side of the device **100** of **FIG. 7** is illustrated having back side **122***b* and **124***b*. A secondary display screen **108** is mounted on the back surface **122***b* of the first panel **122**. Display **108** may be conveniently used in the closed (0°) position (see **FIG. 4***f*). A secondary keypad or grouping of function buttons, such as buttons **109** and browser key **107**, are provided on the back side **122***b* for use with the camera and other functions accessible in the various positions in which the back of the second panel is exposed, such as the 0° position.

[**0065**] A camera lens **123** is mounted for use on the back surface **124***b* a of second panel **124** and may be used either in the closed, 0°, position in association with the secondary display panel **108** or in an open position, such as in the range of 90° to 180° in association with the primary display panel **116**. Camera usage is optimized in the 0° position. A receptacle connector **126** may be provided for the connection of an accessory flash unit (not shown).

[**0066**] A free standing mode is provided at approximately 270°-300° which allows the device to be placed with the primary screen exposed in an easily viewable position and the second panel providing a base to allow the device to be supported upright without the need for holding the device. In this free-standing position, the use of the alarm clock and radio function is most convenient.

[**0067**] The device may also be extended flat for table use in the 180° orientation of the panels with the front surfaces of the first and second panels exposed for use and viewing. In this position, the PDA function is most accessible, but all features can also be used. The cellular phone is particularly well adapted for hands free operation in this position. In addition the function mode in which Internet access is allowed would also be selectable in the 180° position.

[**0068**] The functioning of the device **100** is controlled by a microprocessor **101** which monitors the relative position of the first and second panels **122** and **124** to identify accessible functions and assign functions to the components of the user interface. Certain of the keys provided will be soft keys, such as **107**,**109**, and **133** in that their function will be assigned by microprocessor **101**, depending on the relative position of the first and second panels and the function selected. In addition, the display driver **107** is designed to switch the display to the viewable primary display screen **116** or secondary display screen **108** in response to movement and position of the panels. The orientation and position of the display on the display screen **116** or **108** may also be changed to accommodate the user in the most convenient manner consistent with the function selected. Different menus and data may be displayed depending on the position of the panels and the selected use.

[**0069**] As shown in **FIG. 9**, the multifunction communication terminal **100** of **FIGS. 7-9**, comprises a system of components that are operatively interconnected to provide the combined functions of a camera **131**, notepad **129**, and mobile telephone **118**. A main control processor **101** is supported by a memory **102** and processes data and commands from a mobile telephone module **118** and a notepad